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**Product Data Sheet**


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Product Name: IL 29 Human, His  
 Cat. No.: GP20638  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Interferon lambda-1; IL-29; IL29; IFN-lambda-1; CytokineZcyto21; Interleukin-29.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMMGPVPT SKPTTTGKGC HIGRFKSLSP QELASFKKAR DALEESLKLKNWSCSSPVFP GNWDLRLLQV RERPVALEAE LALTLKVLEA AAGPALEDVL DQPLHTLHHI LSQIQACIQPQPTAGPRPRG RLHHWLHRLQ EAPKKESAGC LEASVTFNLF RLLTRDLKYV ADGNLCLRTS THPEST.		
Formulation	IL29 protein solution (1mg/ml) containing 20mM Tris-HCl (pH8.0) and 10% glycerol.		

**Introduction**

IL-29 is distantly related to type I interferons and the IL-10 family. Expression of IL-29 is induced by viral infection which interacts with a heterodimeric class II cytokine receptor that consists of interleukin 10 receptor, beta (IL10RB) and interleukin 28 receptor, alpha. IL-29 exhibits common features with type I IFNs such as antiviral activity, antiproliferative activity and in vivo antitumour activity. IL-29 acts similarly to IFNs, but is less effective generally and has activity in a more limited range of cell lines. IFN-ambda 1, IFN-lambda 2 and IFN-lambda3 are closely positioned genes on human chromosome 19. IL-29 induces ELR(-) CXC chemokine mRNA in human peripheral blood mononuclear cells, in an IFN-gamma-independent manner. IL-29 is able to generate tolerogenic DCs, an activity that could thwart IFN-beta functions. IL-29 produced in response to viral infection, activates both monocytes and macrophages producing a restricted panel of cytokines and therefore is an important factor in activating innate immune responses at the site of viral infection. IFN-Lambda 1 antiviral and antiproliferative activity requires Interferon-Lambda 2 receptor tyrosine residues.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Stability

Store at 4°C if entire vial will be used within 2-4 weeks.

### Background

IL 29 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 206 amino acids (20-200 a.a) and having a molecular mass of 22.7kDa. IL 29 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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